DRAFT NOTES:

Water Management Coordinating Team Meeting – 2/3/00

9:30-12:00

Present:
Dave Fullerton, Tom Boardman, Pete Chadwick, George Barnes, Tina Swanson, Dave Forkel, Bill Johnston, Paul Forsberg, Brian Campbell, Paul Fujitani, Ken Lentz, Ron Ott, Russ Brown, Tom Cannon, Dale Flowers

Agenda

- Gaming status
- Gaming Report
- Habitat White Paper

Gaming Status - Dave Fullerton

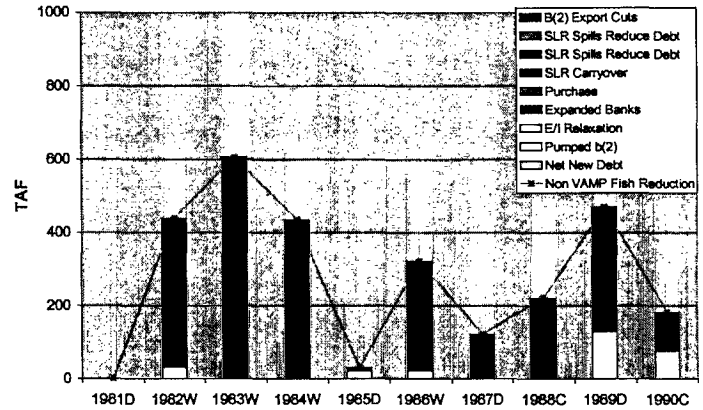
- Three Scenarios - two stages
  - Game 1A - early Stage 1 b2 game
  - Game 1B - late Stage 1 b2 game
  - Game 2A - early Stage 1 EWA game
  - Game 2B - late Stage 1 EWA game
  - Game 3A - early Stage 1 Bio Bar game
  - Game 3B - late Stage 1 Bio Bar game
- Asset Array - greater in B games - late Stage 1: 500 TAF GW, 200 TAF Delta islands, 290 TAF added Shasta storage, 15,000 cfs Expanded Banks
- Common EWA game 2 and 3 A and B assets: 100 TAF NOD purchase, 100 TAF SOD purchase, JPOD, E/I relaxation, excess b2 water
- Game 1 - project favorable with no new b1 and no EWA. (Also called b2 Game)
- Game 2 - max re-operation with b1/b2, but b2 limited to Delta WQCP and VAMP with EWA controlling remainder of b2 assets, purchase options (200 TAF), E/I relaxations, 500 cfs of Expanded Banks capacity in summer, and debt carrying ability - plus ability to optimize system with more b1.
- Game 3 - Biol Bar - conversion of Service's prescriptive standards bar for assurances - biol operating system - template actions added to prescription actions as necessary. E/I relaxations added to assets. Some b1 re-operation. Expanded Banks 500 cfs in summer added to assets for 3A. Unlimited debt and export and storage control via reducing deliveries.
- Status/ Schedule - Game 1A & 1B 10 years complete, Game 2A 14 years completed, Game 2B 7 years completed, Game 3A 14 years completed: complete 2B this week, complete 1A, 1B, and 3B full 15 years by end of next week.
- Results to date:
  1. B2 water released from upstream reservoirs often could be exported – 50/50 sharing.
  2. Disconnect on b2 accounting - deviated to b2 metric system - b2-crediting assumptions could be upgraded. Games to date have optimistic interpretation of b2 for water supply. Final b2 may have greater water supply impacts.

Game 1A Summary

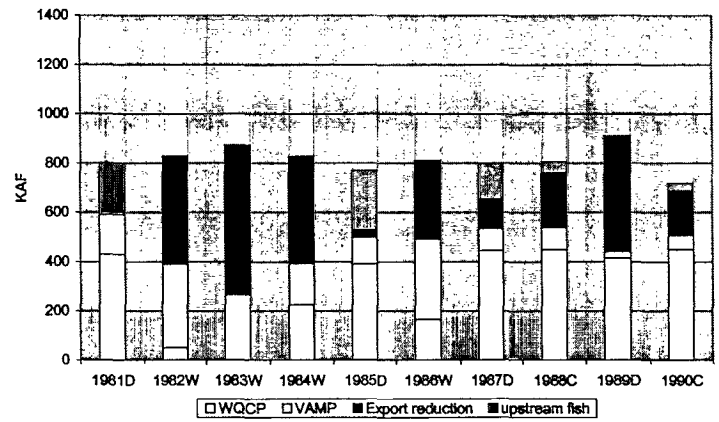
-Operational shifting under the heading of b2 often did not have water cost - all shifts charged to b2.

- WQCP Delta cost often 450 TAF in dry years
- VAMP costs low in dry years
- Mixture of b2 releases and export reductions applied

Operations in Support of Export Cuts Beyond VAMP
Game 1a



Operational Shifting for Fish
Game 1a



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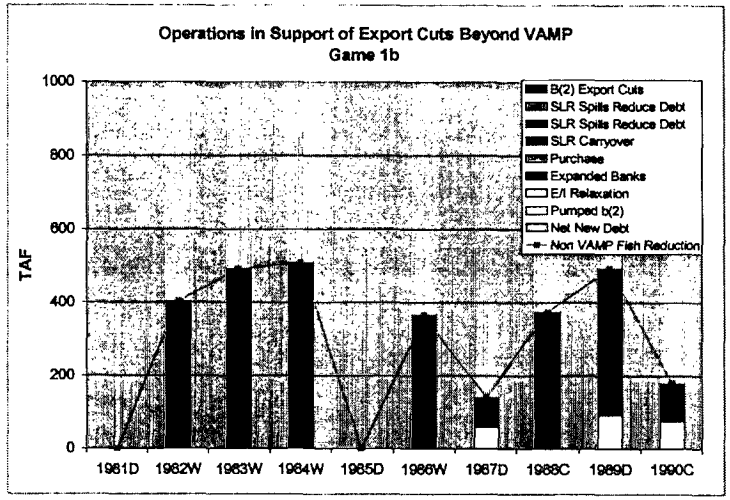
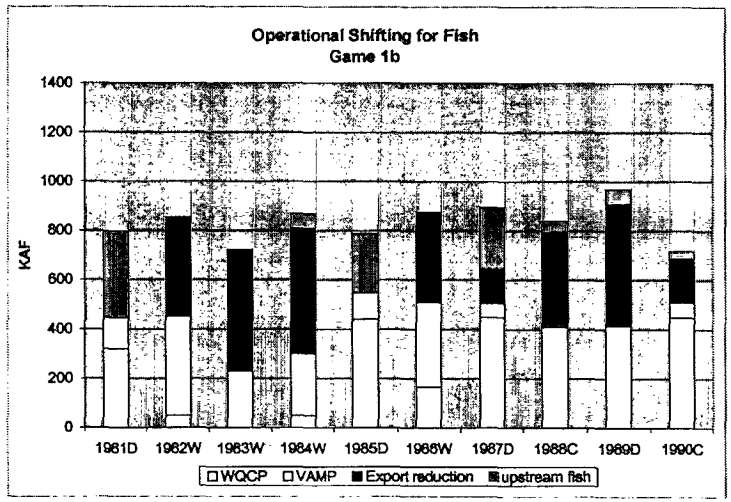
Game 1B Summary

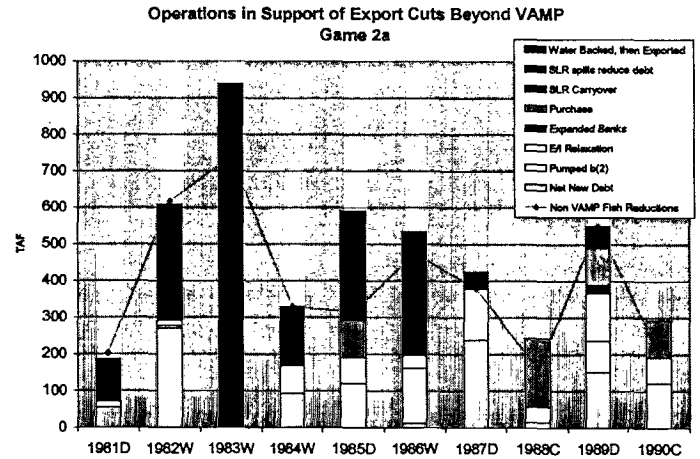


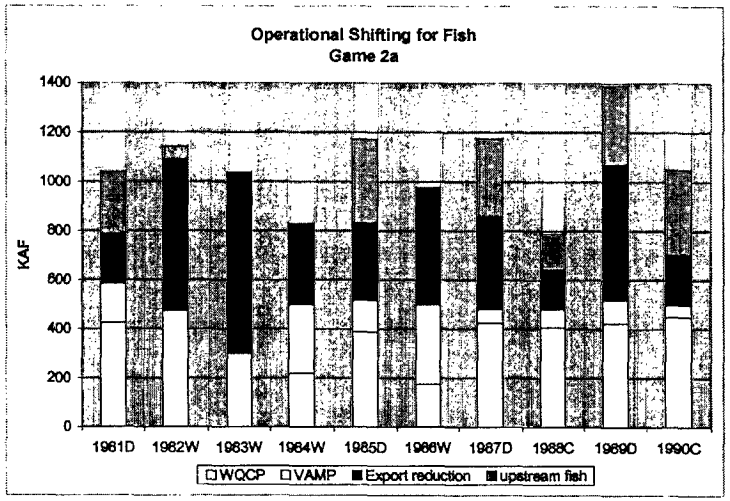


Game 2A Summary - Often operational shifts not charged to b2 - rather to b1 or EWA.

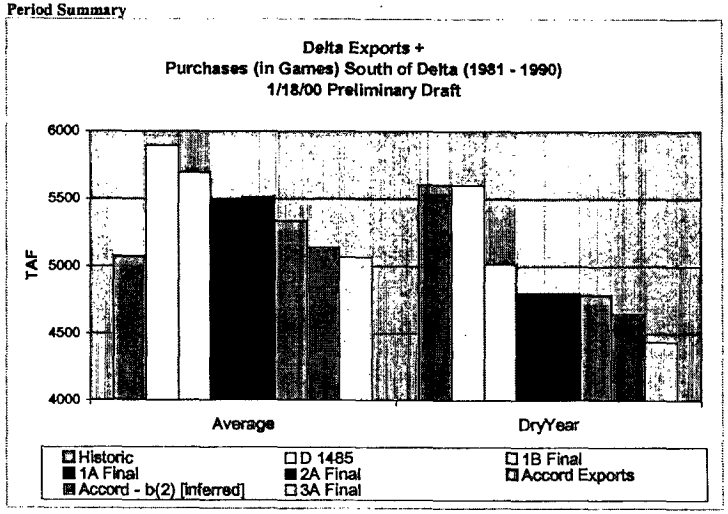
- 200TAF higher shifting in Game 2A than in Game 1A.
- VAMP + Delta WQCP = b2 cost, plus some upstream releases to meet AFRP flow specifications.
- Export reductions with EWA
- Upstream releases are higher because forced to release upstream b2 - b2 only VAMP and WQCP delta cost - no harm beyond VAMP - while improving protections
- Export reductions with reoperation + pumping of new releases.

5. Flexibility will decline as SWP reaches maturity.
6. 200 TAF more than in 1B for fish management
7. 2A had lower storages because of more aggressive releases - loading risks at beginning of dry period. More aggressive releases in fall and early winter. Hurt in prolonged drought.
8. Game 1A - export cut from b2 beyond VAMP - E/I relaxation is asset
9. GAME 2A - more tools used than 1A to generate water for export cuts. Carried debt within and between years. Pumped b2 releases and split exports. E/I relax. Expand Banks 500 in summer (90TAF). Purchases 100-200 TAF (NOD, SOD). San Luis EWA carryover assets. Spills reduce debts.(dry years don't pay debts with spills)

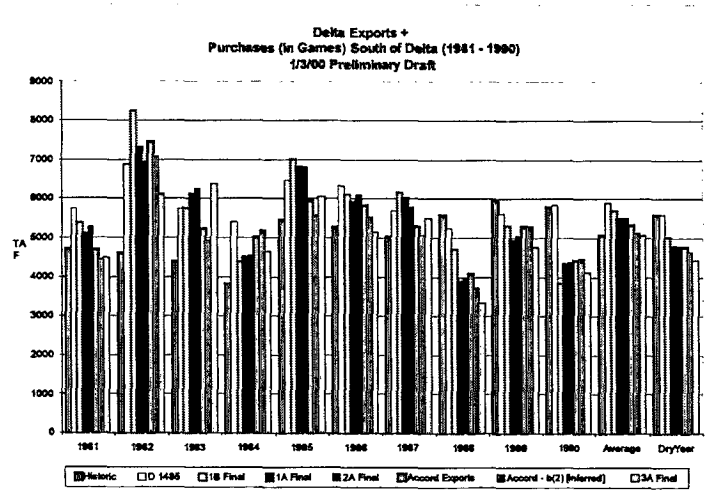




Period Summary



Annual Summaries



Upcoming Events

- Tech Report - reference to EIS record.- draft in two weeks.
- Game Summary
- Phase II Report
- OPS Group Meeting on 2/22

Comment: Dealing with Trinity? Can't ignore in gaming. Maybe estimate effect. Not much effect in dry years or wet spill years - but yes on intermediate years.

Tech Report

Comment: Density assumption for exports - no way to overcome this bias. Report should discuss this assumption and explicit on how salvage is calculated.

- What would you like to see

1. Headings in each set
2. GW may work better for EWA than projects. Collateral. Share?
3. Tease out value of assets to EWA and projects.

Water Quality

1. Add salinity to report.
2. Cross channel gate operations.